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Indian Museum.



ANNUAL REPORT.

April 1895 to March 1896.

22322

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I. M.

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MINUTES
OF
THE ANNUAL MEETING
OF
THE TRUSTEES OF THE INDIAN MUSEUM.

MONDAY, 11TH MAY 1896.

Present:

COLONEL J. WATERHOUSE, I.S.C., *in the Chair*.
R. E. HAMILTON, Esq.
A. SIMSON, Esq.
C. LITTLE, Esq., *Honorary Secretary*.

IA. The following Officers were elected for the ensuing year:—

COLONEL J. WATERHOUSE, I.S.C., *Chairman*.
SURGEON-LT.-COL. D. D. CUNNINGHAM, F.R.S., C.I.E., *Vice-Chairman*.
RAI OMBRITO NATH MITTER, BAHADUR, *Honorary Treasurer*.
C. LITTLE, Esq., *Honorary Secretary*.

REPORT OF THE TRUSTEES OF THE INDIAN MUSEUM.

IIA. The Committees for the ensuing year were appointed as follows:—

Finance and Visiting Committee.

A. PEDLER, Esq., F.R.S.
DR. A. F. R. HERNLE.
A. SIMSON, Esq.
DR. MAHENDRA LAL SIRCAR,
C.I.E.
BRIGADE-SURGEON-LT.-COL. G.
KING, F.R.S., C.I.E.
R. E. HAMILTON, Esq.

Economic Committee.

A. PEDLER, Esq., F.R.S.
DR. MAHENDRA LAL SIRCAR,
C.I.E.
R. E. HAMILTON, Esq.
BRIGADE-SURGEON-LT.-COL. G.
KING, F.R.S., C.I.E.
DR. A. F. R. HERNLE.

IIIA. The Trustees' Administration Report and the Reports on the Zoological and Archaeological Section by the Superintendent of the Museum, and on the Economic and Art Section by the Officer in charge, for the year 1895-96, were read and approved.

H. H. RISLEY,
Chairman.

REPORT

OF

THE TRUSTEES OF THE INDIAN MUSEUM

FOR THE YEAR 1895-96.

The following report on the administration of the Indian Museum Trust, during the year ending 31st March 1896, is submitted for the information of His Excellency the Right Honourable the Governor General in Council.

MEMBERS.

At the commencement of the year the Board of Trustees consisted of the following Members :—

- | | |
|--|---|
| 1. G. E. MANISTY, Esq., I.C.S. <i>Accountant-General of Bengal.</i> | |
| 2. MAHARAJA SIR JOTINDEO MOFUN
TAGORE, K.C.S.I. | } Nominated by the Governor General in Council. |
| 3. J. ELIOT, Esq., F.R.S. | |
| 4. COLONEL C. STRAHAN, R.E. | |
| 5. R. E. S. THOMAS, Esq. | |
| 6. BRIGADE-SURGEON-LT.-COL. G. KING,
F.R.S., C.I.E. | } Nominated by the Lieutenant-Governor of Bengal. |
| 7. HON'BLE C. E. BUCKLAND, I.C.S.,
C.I.E. | |
| 8. W. C. MACPHERSON, Esq., I.C.S. | |
| 9. A. SIMSON, Esq. | |
| 10. HON'BLE PRINCE SIR JAHAN KADUR
MIRZA MAHOMED WAHED ALLI,
BAHADUR, K.C.I.E. | |
| 11. RAI OMBITO NATH MITTAR, BAHADUR | |

REPORT OF THE TRUSTEES

12. SURGEON-LT.-COL. D. D. CUNNINGHAM, F.R.S., C.I.E.	} Nominated by the Asiatic Society of Bengal.
13. DR. A. F. R. HERNLE.	
14. C. LITTLE, Esq.	
15. DR. MAHENDRA LAL SIRCAR, C.I.E.	
16. A. PEDLER, Esq., F.R.S.	} Elected by the Trustees.
17. COLONEL J. WATERHOUSE, I.S.C.	
18. SIE A. CROFT, K.C.I.E.	
19. W. BANKS GWYTHER, Esq.	
20. C. L. GRIENBACH, Esq., C.I.E.	
21. G. A. GRIERSON, Esq., I.C.S., C.I.E.	

There were no changes in the Board during the year under review, except that on the 8th April 1895, when Mr. G. E. Manisty, I.C.S., the Accountant-General of Bengal, went on leave for 2 months and 18 days, Mr. A. F. Cox, I.C.S., his official *locum tenens*, became *ex-officio* Trustee during his absence. The Board of Trustees, therefore, consisted on the 31st March 1896 of the same Members as at the commencement of the year.

Meetings have been held monthly throughout the year.

The Annual General Meeting was held on the 18th May 1895, at which the following Officers of the Trust and Members of the Finance and Visiting and Economic and Art Committees were appointed for 1895-96 :—

HONORARY OFFICERS :

COLONEL J. WATERHOUSE, I.S.C., *Chairman*.
 SURGEON-LT.-COL. D. D. CUNNINGHAM, F.R.S., C.I.E., *Vice-Chairman*.
 RAI OMRETO NATH MITTAR, BAHADUR, *Honorary Treasurer*.
 C. LITTLE, Esq., *Honorary Secretary*.

OF THE INDIAN MUSEUM.

COMMITTEES :

Finance and Visiting Committee.

A. PEDLER, Esq., F.R.S.
DR. A. F. R. HERNLE.
A. SIMSON, Esq.
DR. MAHENDRA LAL SIEGAR,
C.I.E.
G. A. GRIERSON, Esq., I.C.S., C.I.E.
BRIGADE-SURGEON-LT.-COL. G.
KING, F.R.S., C.I.E.
A. F. COX, Esq., I.C.S.

Economic Committee.

A. PEDLER, Esq., F.R.S.
DR. A. F. R. HERNLE.
DR. MAHENDRA LAL SIEGAR,
C.I.E.
G. A. GRIERSON, Esq., I.C.S.,
C.I.E.
BRIGADE-SURGEON-LT.-COL. G.
KING, F.R.S., C.I.E.

The Honorary Officers are also *ex-officio* Members of all Committees.

During the year there were held twelve meetings of the Finance and Economic Committees, at which the accounts were examined and expenditure controlled.

In addition to the above, one special meeting of the Economic Committee and one of the Visiting Committee were held.

The ordinary general meetings were held as usual. There was also a special meeting to discuss the presentation of an address to Sir Charles Elliott and the removal of the Geological Survey Office to the new wing.

GENERAL ADMINISTRATION.

The Zoological and Archæological Section of the Museum was under the control of Surgeon-Captain A. W. Alcock throughout the year, with the exception of the period between the 7th June 1895 and 31st January 1896, when he was on deputation as Surgeon-Naturalist with the Pamir

REPORT OF THE TRUSTEES

Boundary Commission. During the period of Surgeon-Captain Alcock's deputation Surgeon-Captain A. R. S. Anderson, Surgeon-Naturalist to the Marine Survey of India, officiated.

2. The Economic and Art Section continued as usual to be under the charge of Dr. George Watt, C.I.E. The period of three years for which the Reporter on Economic Products was allowed by the Government of India to take charge of the Economic and Art Section ended on 1st January 1896. The arrangement was renewed on the same terms and for the same period as before.

3. During the year under review the new east wing of the Museum, which was referred to in paragraph 3 of last year's report, was completed, except in regard to the fittings of the rooms.

4. As the existing arrangement for admitting respectable native ladies and zenana women to the Museum were not considered quite satisfactory, it was decided to have the Museum opened on Thursdays between the hours of 12 noon and 5 P.M., for this purpose only.

5. One of the most important improvements carried out during the year was the storage of water in large iron tanks deposited on the terraces of the Museum buildings. Pipes have been provided to carry the water to all parts of the buildings, and the supply is adequate for washing the floors, etc., for laboratory requirements and for the prevention of fire which is a serious danger to the Sudder Street wing owing to the inflammable nature of the contents and the wooden floors of the building.

6. The Trustees regret that owing to the resignation of Mr. Cotes, the arrangement entered into with the Govern-

OF THE INDIAN MUSEUM.

ment of India, for investigation in Economic Entomology in the field, could not be proceeded with. And as no Entomologist has as yet been appointed, the subject has been in abeyance.

7. The weekly demonstrations in Zoology, which were undertaken at the request of the Government of Bengal, were begun and continued by the Superintendent. In this connection it may be well to mention that a number of marine invertebrate preparations were purchased from the Marine Biological Association of the United Kingdom at Plymouth for this purpose.

8. The Trustees have to record with regret the retirement during the year from the office of the Lieutenant-Governorship of the Province of Bengal of the Honourable Sir Charles Alfred Elliott, K.C.S.I., C.S., whose services on behalf of the Museum have been recorded on a tablet placed in a conspicuous part of the main building, and bearing the following inscription :—

"This Tablet has been placed here by the Trustees of the Indian Museum in grateful recognition of the many important benefits conferred upon the Museum and the deep interest taken in its welfare by the Hon'ble Sir Charles Alfred Elliott, K.C.S.I., C.S., Lieutenant-Governor of Bengal, during his term of office from 1890—95.

"The Trustees are specially indebted to him for the fitting up of the Sadler Street wing, for the buildings and fittings of the new east wing, for extensive and valuable additions to the Archaeological Collection, and for the gift of the unique series of casts of the inscriptions of King Asoka with the Gallery containing them."

ZOOLOGICAL AND ARCHÆOLOGICAL SECTION.

9. Although the actual acquisitions are less numerous than those of the previous year, yet the Trustees are glad to

REPORT OF THE TRUSTEES

note that progress in the work of the Museum has in no way flagged or been in the least diminished, for which they have to tender their thanks to Surgeon-Captains Alcock and Anderson and to Mr. Finn. The improvements in the Exhibition Galleries, both from an educational and sight-seeing point of view, as well as the systematic cataloguing and final classification of the mass of material in the collections—the accumulation of past years—have steadily progressed. The most important acquisitions have been noted in detail in the Superintendent's report herewith attached.

10. The principal improvements in the Galleries have been as follows:—

- (a) *Invertebrate Gallery*.—A series of photographs of living coral reefs have been framed and hung up. This is not only a very interesting and pleasing spectacle to the casual sight-seer, but also a very instructive lesson to the student, as it shows how the dead and denuded corals in the cases are to be found in their natural state.
- (b) *Bird Gallery*.—A series of cases have been arranged showing (1) the variation, secondary sexual characters, and Bird Morphology, (2) eggs of Indian birds, and (3) insect pests of this country. The cases containing insect pests have been temporarily placed in this Gallery owing to want of space in the Invertebrate Gallery.
- (c) *Mammalian Gallery*.—This Gallery has been thoroughly overhauled, damaged specimens being replaced by fresh ones as far as possible, and a few new additions being made.

OF THE INDIAN MUSEUM.

(d) *Archæological Gallery*.—The Barhut sculptures were removed from the walls in which they had been embedded, as they were found to be suffering from damp.

11. In the Journal of the Asiatic Society of Bengal and the Annal and Magazine of Natural History papers have appeared prepared by Dr. Alcock, Mr. Edgar A. Smith of the British Museum, Messrs. F. E. Schulze and F. Chapman, relating to the specimens contained in the Museum collections. Another fasciculus of the illustration of the Zoology of the Royal Indian Marine Steamer *Investigator*, containing 3 plates on Fishes, 7 on Crustacea, and 2 on Echinoderma, was published.

12. Of official publications the following were prepared and issued:—(a) Description and figures of 9 specimens of Squillidæ by the late Mr. J. Wood-Mason, (b) Coin Catalogue, Part II, by Mr. C. J. Rodgers, and (c) Indian Museum Notes, Volume III, Nos. 4 and 5. The MS. of the first volume of the Fish Catalogue was sent to Press. Two forms only had been set up when the first volume of a second edition of the British Museum Catalogue on the same subject was received. As that edition would certainly contain nearly all the latest Indian discoveries, it was deemed advisable to abandon the idea of preparing a catalogue, and to simply prepare a hand list of our own collection.

13. Lists of the accessions to the various sections of the Museum are given in detail in the Superintendent's report which is appended.

14. The Trustees have again to record their thanks to the several volunteers who have so readily helped in the different branches of Zoology and Archæology. Among these may be

REPORT OF THE TRUSTEES

mentioned the names of Prof. F. E. Schulze, Messrs. E. S. Goodrich, Edgar A. Smith, W. F. H. Blandford, E. Brenske, G. B. Buckton, M. Jacoby, C. Kerremans, P. Lesne, W. M. Maskell, A. D. Michael, O. Standinger, and F. M. Vander Wulp. To Dr. A. F. R. Hœrle the Trustees again have to express their special thanks for the trouble he has taken in editing the Coin Catalogue and for his continued help in numismatic matters.

15. The Trustees note with satisfaction the benefit derived by the Museum through the exchanges effected with the (1) Smithsonian Institute, (2) Imperial Museum of Vienna, (3) the Otago Museum, (4) Dr. Koehler, (5) Prof. de Lorient, and (6) Mr. H. Fulton.

16. Surgeon-Captain A. W. Alcock, the Superintendent, was in charge of the Zoological and Archaeological Section from the commencement of the year to the 6th June and again from the 1st February to end of the official year. He also, in addition to his own duties, superintended the work of the Entomology and Taxidermists' Departments. Besides he gave weekly demonstrations in Zoology at the Museum to the students of the Medical College. From the 6th June to 31st January he was on deputation as Surgeon-Naturalist to the Pamir Boundary Commission.

17. Surgeon-Captain A. R. S. Anderson officiated for Surgeon-Captain Alcock during the absence of the latter officer with the Pamir Boundary Commission.

18. Mr. E. C. Cotes, Deputy Superintendent, resigned his appointment on the 17th April 1895.

19. Mr. F. Finn, First Assistant to the Superintendent, was appointed Deputy Superintendent, *vice* Mr. E. C. Cotes,

OF THE INDIAN MUSEUM.

from the 17th April 1895. He has been engaged in continuing the work in the Bird Gallery. He was deputed to deliver lectures on Zoology at the Forest School, Dehra-Dun, from 12th August to 18th October 1895.

20. Mr. H. B. Perie continued to act as Librarian and Head Clerk up to the 21st October, from which date he was confirmed in his acting appointment, *vice* Mr. H. W. Fleming appointed Registrar to Trustees.

21. Mr. Barlow has continued to carry on the work of the Entomological Section under the supervision of the Superintendent.

22. The Trustees have again to record their high appreciation of the excellent work done by the staff of the Zoological and Archæological Section during the year under review.

ECONOMIC AND ART SECTION.

23. This section was in charge of Dr. George Watt, C.I.E., the Reporter on Economic Products to the Government of India throughout the year.

24. The Officer in charge reports the following improvements to the Exhibition Galleries in his section :—

- (a) *Economic Gallery*.—The experimental bay having received His Honour the Lieutenant-Governor's approval, the work of fitting up the other bays in a similar manner was begun and has been steadily proceeded with. One of the features of this Gallery is, that the doors of the wall cases are to be made of characteristic Indian woods, and for this purpose arrangements have been made with

REPORT OF THE TRUSTEES

the Inspector-General of Forests for the supply of the necessary planks.

- (b) *Artware Gallery*.—The exhibits in this Gallery underwent a thorough overhauling preparatory to a complete re-arrangement, which, however, could not be finished during the year. The new plan has been detailed in the report submitted by the Officer in charge. His Honour the Lieutenant-Governor accompanied by Lady Mackenzie, and later the Hon'ble Mr. J. Woodburn accompanied by Mr. Denzil Ibbetson, visited this Gallery during February 1896, and expressed their satisfaction at the progress made. Owing to want of space a collection of old and useless foreign exhibits belonging to the Calcutta International Exhibition, which were lying stored away in one of the sheds facing Chowringhee Road, were sold off by auction.
- (c) *Ethnology Gallery*.—This Gallery also underwent a process of re-arrangement, similar to that of the Art Gallery.
- (d) A most important and useful addition is that a side room adjoining each Gallery is being fitted up with the necessary appliances for the poisoning of specimens and other work connected with the Galleries which cannot very well be carried on in the open courts. The only exception being in the case of the room for the Economic Gallery, which is being converted into a dark room for photographic work.

OF THE INDIAN MUSEUM.

25. The additions to the collections are as follows :—Art-ware 102 specimens, Economics 1,075 specimens, and Ethnology 77 specimens, making in all a total of 1,254 specimens.

26. Mr. T. N. Mukharji, the Assistant Curator, was absent on privilege leave from the 3rd January to 3rd March 1896, during which period his office was held by Mr. W. R. Yates, Superintendent of Ledgers of the Office of the Reporter on Economic Products, in addition to his own duties. Mr. Mukharji eventually retired owing to continued ill health on the 11th March 1896, when Mr. Yates was again appointed to officiate in his stead.

27. The Trustees have to record with satisfaction the good work performed by the staff of the Economic and Art Section, and their indebtedness to Dr. Watt for his valuable help and energetic supervision.

TRUSTEES' OFFICE.

28. The Trustees have to record with the greatest regret the death of their Assistant Secretary, Mr. R. L. Chapman, which sad event occurred on the 21st October 1895, three days after his return from leave on medical certificate. By his death the Trustees were deprived of the services of a very experienced and able officer. Mr. H. W. Fleming, who had been officiating for him during his absence as Registrar, was again appointed to officiate and was finally confirmed in his appointment from the 22nd October 1896. The reversion to the old post of Registrar was considered necessary for the reason that Mr. Chapman was only appointed Assistant Secretary owing to his exceptional qualifications.

REPORT OF THE TRUSTEES OF THE INDIAN MUSEUM.

29. The accounts for the year have been duly audited and passed. Abstracts of the receipts and the expenditure in both sections are appended.

THE COLLECTIONS.

30. So far as is known the collections are in good order and preservation.

C. LITTLE,
Honorary Secretary.

H. H. RISLEY,
Chairman.



REPORT OF THE TRUSTEES

*Abstract of Receipts and Expenditure of the Zoological and
1895 to 31st*

RECEIPTS.		
	R a. p.	R a. p.
India Government grant for pay of non-gazetted establishment	13,612 6 5	
India Government grant for non-gazetted officiating appointments	1,256 0 5	
		14,868 6 10
India Government grant for contingent charges for the year 1895-96	14,005 8 0	
Savings on gazetted establishment, 1894-95	4,789 0 1	
Savings on non-gazetted establishment, 1894-95	2,833 18 2	
		21,628 5 3
India Government special grant to Mr. E. C. Cotes for the preparation of a Lesson Sheet	...	100 0 0
Bengal Government grant for weekly demonstration on Zoology to students of the Medical College in the Indian Museum	...	600 0 0
Sundry petty receipts	...	706 12 8
TOTAL RECEIPTS	...	37,903 8 9
Opening balance of Suspense Accounts, 1st April 1895	459 3 9	
Opening balance at Bank of Bengal, 1st April 1895:—		
Bengal Government Archaeological grant	332 13 8	
Zoological and Archaeological Section General Funds	2,379 10 6	
Opening balance in hand, 1st April 1895	289 8 7	
		3,461 4 6
	...	41,364 13 3

H. W. FLEMING,
Registrar.

OF THE INDIAN MUSEUM.

*Archaeological Section of the Indian Museum from 1st April
March 1896.*

EXPENDITURE.			
	R	a.	p.
Pay of non-gazetted establishment	13,612	6	5
Cost of non-gazetted officiating appointments	1,256	0	5
			14,868 6 10
Temporary establishment . . . . .	...		1,040 7 6
Books for Library . . . . .	...		3,409 2 6
Printing . . . . .	...		1,269 2 9
Purchase of specimens . . . . .	...		105 6 9
Postage . . . . .	...		307 5 3
Unusual charges—			
(a) Bengal Archaeology	332	13	8
(b) Asteroidea Catalogue	40	0	0
(c) Deputation	540	1	0
(d) Honorarium to Mr. E. C. Cotes	100	0	0
			1,012 14 8
Packing and freight . . . . .	...		1,170 10 8
Furniture (cases, jars, etc.) . . . . .	...		1,821 3 9
Drugs (alcohol, naphthaline) . . . . .	...		1,027 1 10
Stationery . . . . .	...		299 10 6
Special Museum stores . . . . .	...		435 13 6
General Museum stores and contingencies . . . . .	...		647 7 2
TOTAL EXPENDITURE . . . . .	...		27,414 13 8
Closing balance of Suspense Accounts, 31st March 1896 (to be recovered or accounted for in 1896-97) . . . . .	...		1,570 13 7
Closing balance in Bank, 31st March 1896 . . . . .	...		12,141 8 5
Closing balance in hand, 31st March 1896 . . . . .	...		237 9 7
	...		41,364 13 3

OMRITO NATH MITTER,
Honorary Treasurer.

REPORT OF THE TRUSTEES

Abstract of Receipts and Expenditure of the 1st April 1895

RECEIPTS.		
	R a. p.	R a. p.
Bengal Government grant for non-gazetted establishment	...	5,109 9 3
Bengal Government grant for contingencies	...	2,784 0 0
TOTAL RECEIPTS ON MUSEUM ACCOUNT	...	7,893 9 3
Sale of Archaeological Drawings (Technical Art Series) on behalf of India Government	...	18 0 0
TOTAL RECEIPTS ON ALL ACCOUNTS	...	7,906 9 3
Opening Suspense Account balance, 1st April 1895	...	39 9 6
Opening balance in Bank, 1st April 1895:—		
Austrian Government grant for Ethnological specimens	277 4 3	
Economic and Art Section General Funds	3,937 12 3	
		4,215 0 6
Cash in hand, 1st April 1895	...	81 11 7
		12,242 14 10

H. W. FLEMING,
Registrar.

OF THE INDIAN MUSEUM.

*Economic and Art Section of the Indian Museum from
to 31st March 1896.*

EXPENDITURE.		
	R a. p.	R a. p.
Pay of non-gazetted establishment . . .	...	5,109 9 3
Pay of temporary establishment . . .	...	466 9 7
Purchase of specimens . . .	...	71 13 6
Furniture, cases, etc. . .	...	362 15 0
Stationery . . .	...	10 7 9
Preparation of a plan of the Experimental Bay of the Economic Court . . .	...	60 0 0
Other contingencies . . .	...	926 1 0
TOTAL EXPENDITURE ON MUSEUM ACCOUNT	...	7,007 8 1
Sale-proceeds of Archaeological Drawings of Technical Art Series remitted to the Photo-Litho. Office . . .	...	8 4 0
TOTAL EXPENDITURE ON ALL ACCOUNTS	...	7,015 12 1
Closing Suspense Account balance, 31st March 1896 . . .	...	1 10 0
Closing balance in Bank, 31st March 1896:—		
Austrian Government grant for Ethnological specimens . . .	277 4 3	
Photo-Litho Office (sale-proceeds of Archaeological Drawings Technical Art Series) . . .	4 12 0	
Economic and Art Section General Funds	4,824 1 0	
Cash in hand, 31st March 1896 . . .		5,106 1 3* 119 7 6
		12,242 14 10

* Exclusive of balances on account of the Ahsunnulla-Swarnamayee Memorial Fund and the Calcutta International Exhibition Fund.

OMRITO NATH MITTER,
Honorary Treasurer.

REPORT OF THE TRUSTEES

Dr.

Ahsunnulla-Swarnamayee

	Cash.	Government Securities and Fixed Deposits.
	R a. p.	R a. p.
To Balance in Bank of Bengal	205 14 8	
" Balance in Bank of Bengal on account of Government Promissory Note of 3½ per cent. Loan of 1842-43 . . . . .	.....	5,000 0 0
" Balance in Bank of Bengal on account of Fixed Deposit . . . . .	.....	1,295 1 11
" Balance in Bank of Bengal on account of Fixed Deposit . . . . .	.....	1,114 13 0
" Interest on Fixed Deposit of R1,295-1-11	32 6 0	
" Interest on Fixed Deposit of R1,114-13-0	27 14 0	
" Interest on Government Promissory Note of R5,000	169 15 2	
" Interest on Government Promissory Note of R1,000	16 12 11	
" Balance of investment of Fixed Deposit of R1,114-13-0	79 6 10	
" Government Promissory Note of 3½ per cent. Loan of 1893-94 . . . . .	.....	1,000 0 0
" Fixed Deposit . . . . .	.....	1,533 6 7
	532 5 7	9,943 5 6

Dr.

Calcutta International

	Cash.	Government Securities.
	R a. p.	R a. p.
To Sale-proceeds of show-cases and exhibits	1,345 11 3	
" Amount of Government Securities for R1,200 purchased, as <i>per contra</i> . . . . .	.....	1,200 0 0
" Interest on Government Promissory Note of R1,200	20 7 8	
	1,366 2 6	1,200 0 0

H. W. FLEMING,
Registrar.

OF THE INDIAN MUSEUM.

Memorial Fund, 1895-96.

Cr.

	Cash.	Government Securities and Fixed Deposits.
	R a. p.	R a. p.
By Amount expended for renewing Fixed Deposit of Rs. 1,295-1-11 for a fresh Fixed Deposit of Rs. 1,533-6-7	238 4 8	
" Amount expended for conversion of Fixed Deposit of Rs. 1,114-13-0 into Government Promissory Note of Rs. 1,000	27 14 0	
" Renewal of Fixed Deposit . . . . .	.....	1,295 1 11
" Conversion of Fixed Deposit into Government Promissory Note of Rs. 1,000 . . . . .	.....	1,114 13 0
" Balance	266 2 11	7,533 6 7
	532 5 7	9,943 5 6

Exhibition Fund, 1895-96.

Cr.

	Cash.	Government Securities.
	R a. p.	R a. p.
By Amount paid for the purchase of Government Securities of the 3½ per cent. Loan of 1893-94 for Rs. 1,200	1,271 9 8	
" Balance	84 8 10	1,200 0 0
	1,356 2 6	1,200 0 0

OMRITO NATH MITTER,
Honorary Treasurer.



REPORT OF THE SUPERINTENDENT,

FOR THE YEAR 1895-96.

SUPERINTENDENT.

I HAVE the honour to submit my Report upon the Museum for the year ending 31st March 1896.

During my absence on deputation with the Pamir Boundary Commission—from the 7th June to the 31st January—Dr. A. R. S. Anderson officiated as Superintendent, but this has not affected the steady pursuit this year, in the Zoological Section, of the two main objects mentioned in last year's report—namely (1) the improvement, for general educational purposes, of the Exhibition Galleries, and (2) the systematic cataloguing and final arrangement of the great mass of unclassified material (especially Invertebrata) that has accumulated during the past twenty years.

Until this material has been at any rate in part worked out, it appears inadvisable to encourage further indiscriminate collecting; but rather to confine our attention to those groups that are either known or gradually becoming known as our catalogues progress. It is only by following some such plan that with our limited staff we can hope to produce results of general value.

During the present year a good deal has been done to the Mammal Gallery, and some progress has been made towards a final arrangement of the collections of Birds, Fishes, and Crustacea, as is detailed in the sequel.

REPORT OF THE SUPERINTENDENT,

In the Archæological Section, thanks to the Government of Bengal, a large number of Buddhistic antiquities and a most valuable series of Asoka casts have been acquired. A few changes have been made in the Archæological Gallery.

One of the most noteworthy events of the year has been the building of the longed-for work-rooms and accommodation for reserve and study collections. The building is now complete and the interior is being fitted, so that we may hope to be able to make use of it during the current year.

I.—ADDITIONS TO THE COLLECTIONS.

The total acquisitions number 3,822 specimens, excluding the Archæological donations from the Government of Bengal, or 729 less than last year. A majority of the acquisitions have been named.

The following are the most important:—

A.—ZOOLOGY.

- (i) The usual large and valuable collections from the Marine Survey of India;
- (ii) Specimens of 143 species of animals from the Pamir and Hindukush—the results of the Pamir Boundary Commission;
- (iii) A collection of Crustacea from the Persian Gulf presented by Mr. F. W. Townsend;
- (iv) A small collection of Assam Reptiles presented by Dr. F. H. Norvill;

INDIAN MUSEUM.

- (v) Some snakes from the Trevandrum Museum.
- (vi) A most valuable donation, in exchange, of specimens of 83 named species of Atlantic and Pacific Fishes and of 15 named species of deep-sea Holothuroids, from the Smithsonian Institution;
- (vii) Numerous named European Echinoderms from Prof. de Loriol, Dr. R. Koehler and Dr. von Marenzeller, in exchange;
- (viii) Fine specimens of Penguins obtained from the Otago Museum, in exchange;
- (ix) Exchanges of Mollusca with Mr. H. Fulton;
- (x) Numerous mammals and birds presented by Mr. W. Rutledge and by the Calcutta Zoological Garden.

B.—ARCHÆOLOGY.

The most noteworthy archæological additions are:—

- (i) The Buddhist sculptures from Swat, and the moulds and casts of Asoka inscriptions, presented by the Government of Bengal;
- (ii) The clay impressions of coins and seals presented by Mr. C. J. Rodgers.

Among the Zoological acquisitions the following Indian species have to be specially noticed:—

MAMMALS.

A series of 4 specimens (young and old, both male and female) of the great Pamir sheep, the adult male presented by Lieut. Ossetinsky of the 16th Turkestan

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Battalion, and a fine series of the Golden Marmot of the Pamir.

BIRDS.

A quite perfect and very large specimen of the Lammergeyer presented by General Povalo Schweikovsky. A magnificent specimen of Himalayan Vulture presented by Major E. F. H. McSwiney. Some fine specimens of Baer's Pochard, now almost for the first time recorded from India, discovered and presented by Mr. F. Finn, and a specimen of the remarkable Stiff-tail Duck.

REPTILES.

A new variety of the Himalayan Skink (*Lygosoma himalayanum*) from Kashmir.

Melanophidium punctatum, and *Dipsas dightoni*—two snakes new to the collection, presented by the Tre-vandrum Museum.

FISHES.

Dibranchus nasutus, *Dibranchus micropus*, *Halic-metus ruber*, *Hoplostethus mediterraneum*, *Trachichthys darwinii*, *Antigonia capros*, *Schisothorax fedschenkoi*, *Schisothorax hodgsonii*, and the following types of new Indian species:—*Diplacanthopoma rivers-andersoni*, from deep water off Karachi, and *Nemachilus yasinensis* from the River Yasin in the N.-W. Himalayan region.

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MOLLUSCA.

The following types of new Indian species, instituted by Mr. Edgar A. Smith and Mr. E. S. Goodrich, have been added :—

Pontiothauma mirabile and *Pontiothauma abyssi-*
cola—these being abnormal Gastropods from the deep sea, characterized by the absence of eyes and radula—*Pleuro-*
toma vagata, *Pleurotoma præsignis*, *Drillia fugata*,
Nassa pseudoconcinna, *Columbella pacei*, *Natica albo-*
spira, *Natica candidula*, *Sigaretus parvus*, *Capulus*
irregularis, *Bathybembix wood-masoni*, *Calliostoma sub-*
læve, *Dentalium mirificum*, *Venus juvenilis*, *Tellina*
parvula, *Abra convexior*, *Cuspidaria macrorhynchus*,
Cryptodon investigatoris, *Cryptodon acuticarinatus*,
Nucula donaciformis, *Nucula bengalensis*, *Nuculana*
fumosa, *Nuculana indica*, *Malletia conspicua*, *Crassa-*
tella indica, *Lima subtilis*, *Taonius abyssicola*, *Sepioteu-*
this indica, *Chiroteuthis macrosoma*, *Chiroteuthis pel-*
lucida, *Abralia andamanica*, *Abralia lineata*, *Inioteu-*
this maculosa, *Octopus microphthalmus*, *Sepia singa-*
lensis.

CRUSTACEA.

Eucopia sculpticauda, *Bentheuphausia amblyops*,
Nephropsis suhmi, *Phoberus cæcus*, *Calocaris macan-*
drew, *Pentacheles gibba*, *Pentacheles phosphorus*,
Lithodes agassizii, *Paromolopsis boasi*, *Hypsophrys*
superciliosa, *Physachæus ctenurus*, *Lambrus tarpeius*,
Zebrida adamsii, *Nursia plicata* (Hbst.), *Nursia hard-*
wickii, Leach, *Nursia abbreviata*, *Philyra verrucosa*,

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Pseudophilyra pusilla, *Pseudophilyra tridentata*, *Leucosia elata*, *Leucosia whitmeei*, *Arcania undecimspinos*, *Arcania pulcherrima*, and the following types of new Asiatic species:—*Branchipus bobrinskii*, *Daphnia bogoavlenskii* both from Chakmuktin Lake, Little Pamir, *Munidopsis wardeni*, *Scyramathia rivers-andersoni*, *Menaethiops bicornis*, *Parthenope investigatoris*, *Lambrus petalophorus*, *Heterocrypta investigatoris*, *Tlos patella*, *Nursia persica*, *Nursia blanfordi*, *Ebalia wood-masoni*, *Philyra sexangula*, *Pseudophilyra blanfordi*, *Pseudophilyra wood-masoni*, *Leucosia sima*, *Leucosia truncata*, *Trichopeltarium ovale*.

INSECTA.

Six new Indian types have been added, namely, a moth, *Mahasena graminivora*, G. F. Hampson; a Buprestid beetle, *Fulodis atkinsoni*, C. Kerremans; and 4 Homoptera viz., *Aleurodes eugeniæ*, W. M. Maskell, *Assamia dentata*, G. B. Buckton, *Pemphigus immunis*, G. B. Buckton, *Pemphigus napæus*, G. B. Buckton.

II.—PUBLICATIONS.

The following official publications were in hand this year:—

- (i) Indian Museum Notes, Vol. iii, Nos. 4 and 5, distributed, and Vol. iv, No. 1, submitted for sanction and press order.
- (ii) Descriptions and Figures of Nine species of Squillidæ by the late Mr. James Wood-Mason, issued and distributed,

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- (iii) Coin Catalogue by Mr. C. J. Rodgers, Part ii, issued and distributed. The Plates to complete Parts iii and iv are nearly ready.
- (iv) Second Supplementary Library Catalogue by Mr. H. B. Perie, MS. sent to press.

The following non-official publications referring to the Trustees' collections were published during the year:—

- (i) Materials for a Carcinological Fauna of India. No. 1. The Brachyura Oxyrhyncha by A. Alcock. Journal, Asiatic Society, Bengal, Vol. lxiv, Part ii, pages 157—291, Plates iii—v.

In this paper 107 Indian species are described, of which 103 are represented in the Museum collection. We now know therefore what to look for to improve and complete the collection, and moreover can compile an official Catalogue without much further work.

- (ii) On a new Species of Viviparous Fish of the Family Ophidiidæ by A. Alcock. Ann. Mag. Nat. Hist., (6) xvi, pages 144—146.
- (iii) Illustrations of the Zoology of the Royal Indian Marine Steamer *Investigator*. Fishes, Part iii, Plates xiv—xvi; Crustacea, Part iii, Plates ix—xv; and Echinoderma, Part ii, Plates iv and v.
- (iv) Report on the Mollusca dredged by the *Investigator* in the Bay of Bengal and the

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Arabian Sea during the Season 1893-94 and 1894-95 by Edgar A. Smith. *Ann. Mag. Nat. Hist.*, (6) xvi, pages 1—19 and 262—265, Plates i and ii.

- (v) *Hexactinelliden des Indischen Oceans.* i Theil. *Die Hyalonematiden* by F. E. Schulze. *Abhand-Königl. Preuss. Akad Berlin*, 1894, pages 3—60, Plates i—ix.
- (vi) Mr. F. Finn, Deputy Superintendent, also published, in the *Journal of the Asiatic Society of Bengal*, Vol. lxiv, Part ii, pages 344—356, the results of some experiments with a Babbler, being a contribution to the Theory of Warning Colours and Mimicry.
- (vii) Mr. F. Chapman in the *Proceedings of the Zoological Society of London* for 1895, pages 3—55, Plate i, has enumerated 277 species of Foraminifera from the Arabian Sea, and has figured several new species and varieties, all from duplicate material from the Museum.
- (viii) As reported last year more than half of the first volume of the *Catalogue of Fishes*, which included almost all the *Acanthopterygii*, was in the hands of the printer. Two forms had been set up when, early in the present year, the first volume of a Second Edition of the *British Museum Catalogue of Fishes* was received. As our *Catalogue* was purposely modelled on the First Edition of the *British Museum Catalogue*, it was thought advisable

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to stop printing our Catalogue for the present; and as the new edition of the British Museum Catalogue will probably embody all the latest Indian discoveries, it will probably be unnecessary for us to compile eventually anything more ambitious than a Hand List of our own collection.

Since the collection is already fairly well arranged, and since—as far as is known—it contains nothing that has not been already described, we shall lose little by the delay.

III.—ADDITIONS ETC. TO THE GALLERIES.

- (i) Invertebrate Gallery. All the ugly wooden shelves have been removed from the cases and have been replaced by shelves of glass.

The written labels to the individual exhibits are gradually being replaced by printed labels. A series of Saville-Kent's photographs of living coral-reefs, and a series of enlarged teaching diagrams have been mounted and hung.

A series of enlarged and coloured drawings of living mollusks and of mollusk-dissections have been prepared and exhibited for each family of Mollusca.

- (ii) Nothing has been done to the Fish Gallery.

- (iii) In the Reptile Gallery a dissection of a large Crocodile's heart has been mounted.

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- (iv) In the Bird Gallery the cases illustrating variation, and Secondary Sexual characters, and Bird morphology have been attended to, but are not yet filled.

A series of eggs of Indian birds has been mounted in glass cases under curtains.

The large series of Insect cases temporarily placed in this Gallery has been filled with useful exhibits of the Insect pests of this country.

- (v) The Mammal Gallery has been thoroughly overhauled; the cases have been repainted and thoroughly poisoned, old and damaged specimens have been removed, and all the specimens now remaining have been cleaned and poisoned anew.

Orders and families have been more sharply segregated, and each family and order has been provided with a black and white wooden label showing the scientific and popular name.

The lion and tiger exhibit, which was falling to pieces, has been destroyed, and its case is now occupied by a series of skeletons in which man and the higher apes are compared.

A series of skulls illustrating the different types of Mammalian (Eutherian) dentition has been mounted—the homologous teeth being coloured alike throughout the series.

A skeleton of a tiger and a small Cetacean have been mounted together in one case to contrast the modifications

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resulting from adaptation of the mammalian type to an aquatic life.

A great many new exhibits have been mounted, including a very fine tiger, and fine specimens of the Great Pamir sheep.

The Marsupials and monotremes, as belonging to orders not represented in the Indian Fauna, and as otherwise lending themselves to this arrangement, have been completely isolated at the northern end of the Gallery.

(vi) Archæological Gallery. The Bharhut sculptures which were suffering from being embedded in the damp wall of the northern court, have been removed and rearranged in a better place.

The clay impressions of ancient coins and seals presented by Mr. C. J. Rodgers have been exhibited in one of the western bays.

IV.—DEVELOPMENT OF THE STUDY COLLECTIONS ETC.

(i) PORIFERA.

The Hexactinellid sponges have been named by Prof. F. E. Schulze, whose published results have been already referred to, but the specimens themselves have not yet been returned.

(ii) ECHINODERMA.

Arrangements have been made with Dr. R. Koehler of the Faculté des Sciences, Lyon, to name and describe the "Investigator" Ophiuroidea on condition that he

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shall keep a duplicate of every species represented in duplicate, and shall offer his results to the Asiatic Society of Bengal. As the "Investigator" Ophiuroidea is practically co-extensive with the Trustees' collection Dr. Koehler's work will be a Catalogue of our Ophiuroids.

(iii) CRUSTACEA.

The collections of Oxyrhynch and Oxystome Crabs have been completely worked out and finally arranged.

(iv) MOLLUSCA.

The collection of Cephalopods sent to Oxford in 1893 has now been returned—all the specimens having been named by Mr. E. S. Goodrich whose results—illustrated are about to appear in the transactions of the Linnean Society. Mr. Edgar A. Smith of the British Museum has continued the arrangement by which our new shells are named by him in return for a co-type or duplicate to be deposited in the National collection.

(v) INSECTA.

No big pieced work has been done, but individual specimens have been identified by Messrs. W. F. H. Blandford, Ernst Brenske, G. B. Buckton, Martin Jacoby, C. Kerremans, P. Lesne, W. M. Maskell, A. D. Michael, O. Standinger, F. M. Vander Wulp.

V.—PROGRESS OF EXCHANGES.

There have been received from—

- (a) the Smithsonian Institution, a large collection of named Fishes chiefly of the deep-sea and of named deep-sea Holothurians :

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- (b) the Imperial Museum of Vienna, named European Echinoderms :
- (c) the Otago Museum—named skins of Penguins :
- (d) Dr. Koehler and Prof. de Loriol, named European Echinoderms :
- (e) Miscellaneous sources—Snakes and skull and horns of Buffalo.

There have been sent to—

- (a) the British Museum, Oxyrhynch Crabs, co-types of certain of the deep-sea Mollusca described by Mr. Edgar A. Smith and a few deep-sea fishes ;
- (b) the Museum of Cambridge University, a few Crustacea ;
- (c) the Otago Museum, New Zealand, some deep-sea Invertebrates :
- (d) the Imperial Museum of Vienna, some deep-sea Echinoderms and Mollusca :
- (e) Mr. H. Fulton, Indian shells, and
- (f) Miscellaneous workers—embryos of Python and Hammer-head shark, and skull and horns of 4-horned antelope and of ibex.

VI.—DISTRIBUTION OF WORK.

SUPERINTENDENT AND OFFICIATING SUPERINTENDENT.

For considerable periods of the year has been the only gazetted officer present. Have published various papers already noted dealing with parts of the Trustees' collections, have planned and supervised the changes in the Galleries already noticed, as well as the work of the

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Entomological and Taxidermist's Departments, and have been engaged on other work for future publication.

DEPUTY SUPERINTENDENT.

Mr. E. C. Cotes resigned on the 17th April and Mr. F. Finn was promoted Deputy Superintendent from that date.

Has been in charge of the Bird Gallery and collection of birds, and has made much progress with the manuscript of a Hand List of that collection. Has published the experimental paper already noticed. Was absent on deputation at the Forest School, Dehra Dun, from the 12th August to 18th October.

FIRST ASSISTANT TO THE SUPERINTENDENT.

Mr. F. Finn was promoted to the Deputy Superintendentship on the 17th April, and the post has been vacant since.

SECOND ASSISTANT TO THE SUPERINTENDENT.

The post has been vacant throughout the year.

LIBRARIAN AND HEAD CLERK.

Mr. H. B. Perie acted in this capacity up to the 21st October when he was confirmed in the appointment, *vice* Mr. Fleming, appointed Registrar to the Trustees. He has kept the whole of the Department in his charge in thorough order, and also helped in the minor details connected with the working of the Museum.

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He has completed and sent to Press the manuscript of the Second Supplementary Library Catalogue.

All his work has, as heretofore, been of a high class.

ENTOMOLOGICAL ASSISTANT.

Mr. E. Barlow has carried on all the current duties of the Entomological Department ever since the resignation of Mr. E. C. Cotes. Has completed the manuscript of a volume (Vol. iv, No. 2) of the Indian Museum Notes. Has prepared a number of trays illustrating the Insect Pests of India, which trays are now exhibited in the Bird Gallery.

SUBORDINATE ASSISTANTS.

Mr. J. B. Richardson was promoted Personal Assistant to the Superintendent on the 22nd October and has been engaged in multifarious clerical duties and in the important work of extracting references for the Catalogues of Crustacea and Echinoderma, and registering acquisitions etc.

Mr C. O. Bateman has worked under Mr. Finn in the Bird Gallery and in the curation of the collection of birds and in registering acquisitions etc.

Mr. C. Swaries has been in charge of the Taxidermist Department and of stores, and he and his assistants have prepared and mounted a large number of specimens in their usual careful and artistic way.

The artists have been engaged throughout the year in illustrating both the publications and the exhibited collections.

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Munshi Kassimuddin again deserves mention for the excellence of his labelling throughout the Museum.

VII.—MISCELLANEOUS MATTERS.

Owing to Dr. A. R. S. Anderson having been appointed to act as Superintendent of the Museum, during the Recess of the Marine Survey, we have this year had no extra assistance from this source. But the Artist to the Survey has continued his work here on the illustration of the Zoology of the R. I. M. S. *Investigator*.

The assistance afforded by Mr. Edgar A. Smith, Mr. E. S. Goodrich, Prof. F. E. Schulze and others has already been referred to, and these gentlemen have all been thanked in the Trustees' name for their friendly help.

Mr. W. L. Sclater who has again left England reports that he has been unable to attend to Alcyonarian Corals that were sent to him on the 25th February 1893, but that his successor at Eton College, Mr. M. D. Hill, is taking care of them.

In Archæology we have had the assistance of Mr. A. Caddy who was deputed to collect by the Bengal Government and who developed his collections here.

In Numismatics the Superintendent has again to record his obligation to Dr. A. F. R. Hoernle.

No actual losses have to be reported, but a few badly damaged specimens have been removed from the Mammal Gallery and have been destroyed, among them were the fighting lion and tiger referred to last year as being in a very bad state.

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VIII.—CONCLUSION.

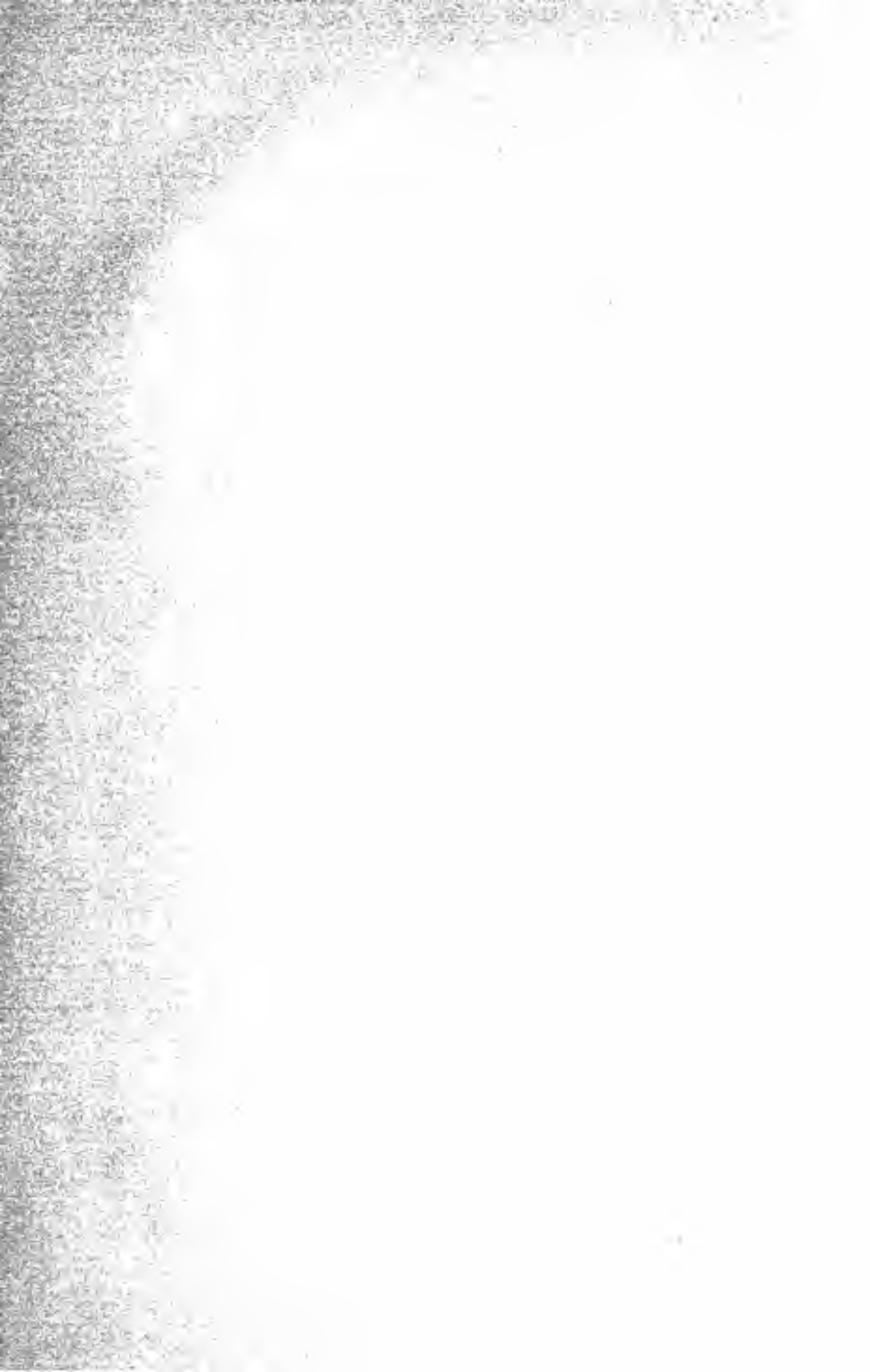
The usual appendices showing (1) a Summary of registered additions for the year, (2) a List of Donors to the Museum during the year, (3) a List of Donors to the Library during the year, and (4) the Yearly Return of Visitors, follow. From the last it will be seen that 471,780 persons—a daily average of 1,965—visited the Museum during the 240 days on which it was open to the general public.

The collections are believed to be in good order. The exhibited collections are almost certainly in good order, as are those on the ground floor of the Superintendent's quarters. The rest will be carefully surveyed when they are removed to the new building.

The condition of the main building is apparently unchanged, the alterations carried out during the year include a plentiful water-supply and convenient fittings, so that in future it will be possible to wash out the building thoroughly without trouble and without much expense.

As already reported, the new East building for work rooms and reserve and study collections is complete, except for fittings. The fittings of the Taxidermist's rooms, however, are well advanced. Unfortunately the rooms designed for the study collections of mammals and birds were not built according to specified requirements, so that the specification of fittings for those rooms will require alteration.

A. ALCOCK, *Surgn.-Capt.,*
Superintendent, Indian Museum.



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APPENDIX A.

Summary of registered additions for the year 1895-96.

ZOOLOGY—								
CeLENTERATA—								
HYDROMEDUSÆ—								
Donations	1				1			
ANTHOZEA—								
Donations	84				84			
SCYPHOMEDUSÆ—								
Donations	4				4	89		
ECHINODERMA—								
HOLOTHURIOIDEA—								
Donations	42							
Exchanges	41				83			
ECHINOIDEA—								
Donations	18							
Exchanges	26				44			
OPHIUROIDEA—								
Donations	378							
Exchanges	52				430			
ASTEROIDEA—								
Donations	17							
Exchanges	35				52			
CRINOIDEA—								
Donations	5							
Exchanges	4				9	618		
ANNELIDA—								
CHÆTOPODA—								
Donations	18				18	18		
ARTHROPODA—								
CRUSTACEA—								
Donations	1,301							
Purchases	6				1,307			
ARACHNIDA—								
Donations	4				4			
HEXAPODA—								
ORTHOPTERA—								
Donations	9							
RHYNCHOTA—								
Donations	46			9				
Reared in Mus.	1							
COLEOPTERA—								
Donations	141			47				
Reared in Mus.	2							
LEPIDOPTERA—								
Donations	132			143				
Mus. Coll.	1							
Reared in Mus.	9							
HYMENOPTERA—								
Donations	2			142				
PODAXONIA—								
POLYZOA—				2	343	1,654		
Donations	1							
BRACHIOPODA—								
Exchanges	2				1			
MOLLUSCA—								
Donations	637							
Exchanges	52				2	3		
Purchases	7							
Mus. Coll.	1							
CHORDATA—								
VERTEBRATA—								
Mammalia—								
Donations	56			56		697		
SAUROPSIDA—								
Aves (skins)—								
Donations	317							
Purchases	15							
Reptilia—								
Donations	43	332						
Purchases	20							
ICHTHYOPSIDA—								
Ambibia—								
Donations	17	63		395				
Pisces—								
Donations	84	17						
Purchases	6							
		90		107	558	558	3,637	...
ARCHÆOLOGY—								
Prehistoric Relics, and								
Sculptures								
Miscellaneous—								
Donations	76					76		
Coins—								
Donations	102							
Purchases	7					109	185	...
								Archæology
TOTAL SPECIMENS REGISTERED DURING THE YEAR								
							3,822	



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APPENDIX B.

List of Donors to the Indian Museum during the year 1895-96.

Alcock, Surgn.-Capt. A. W.	Gerrard, Maj.-Genl. M. G., C.B., C.S.I.
Ali Khan, D. S.	Government of Bengal.
Anderson, Dr. A. R. S.	" " Bombay.
" Mr. G.	" " Burma.
"Asian," Editor of.	" " Central Provinces.
Banerji, Babu K. C.	" " North-West Pro.
Bateman, Mr. C. O.	vinces and Oudh.
Bishop, Capt.	Government of Punjab.
Blanford, Mr. W. T., F.R.S.	Green, Mr. E. E.
Bobrinsky, Count.	Hoernle, Dr. A. F. R.
Calcutta Mint.	Holdich, Col. T. H., R.E., C.I.E., C. B.
Carr, Mr. L.	Jodhpur, Superintendent of Forests.
Cockburn, Mr. J.	Kaye, Capt. J. L.
Colombo Museum.	King, Dr. G., F. R. S., C. I. E.
Creagh, Surg.-Maj. Brazier.	Kirtikar, Surg.-Maj. K. R.
Davies, Capt. R.	Knight, Mr. R.
Dehra Dun, Forest School.	Kochler, Dr. R. (by exchange).
Dobbie, Mr. W. H.	Lancaster, Mr. J.
Dowding, Rev. C.	Leatham, Major G. H.
Dunedin, Otago Museum (by exchange).	Leather, Dr. J. W.
Eastern Telegraph Company.	Lister, Capt. G. C.
Elliott & Co., Messrs. John.	Loriol, M. P. de (by exchange).
Finn, Mr. P.	Madras Museum.
Fulton, Mr. H. (by exchange).	Marenzeller, Dr. E. von (by exchange).
Gamble, Mr. J. S.	
Gardner, Capt.	

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Marine Survey of India.	Sidey, Mr. G. L.
McSwiney, Capt. E.F.H., D.S.O.	Smithsonian Institution (by exchange).
Middlemiss, Mr. C. S.	Stoliczka, Dr. F. (collection).
Norvill, Dr. F. H.	Thurston, Mr. Edgar.
Osmaston, Mr. B. B.	Townsend, Mr. F. W.
Ossetinsky, Lieut.	Trivandrum Museum (by exchange).
Pamir Boundary Commission.	Wahab, Lt.-Col. R. A.
Peal, Mr. S. E.	Warth, Dr. H.
Pearse, Dr.	Watt, Dr. G., C.I.E.
Ranking, Surg.-Lt.-Col. G. S. A.	Whitehouse, Lt. R. N.
Ransom, Mr. S.	Wicks, Capt. G. W., R. N. R.
Richter, Mr. G.	Wood-Mason, J. (collection).
Robillard, Mons.	Woodrow, Mr. Marshall.
Rodgers, Mr. C. J.	Yates, Mr. W. R.
Rw, Capt. J. H.	Zoological Gardens, Calcutta.
Roy, Babu H. M.	
Rutledge, Mr. W.	
Schweikovsky, General Povalov.	

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APPENDIX C.

List of Donors to the Library of the Indian Museum during 1895-96.

Adelaide, Royal Society of South Australia	2
Alcock, Dr. A.	35
Aurivillius, Dr. C. W. S.	3
Bangalore, Mysore Government Museum	1
Bartlett, Mr. E.	2
Bather, Mr. F. A.	1
Berlin, Museum für Naturkunde Königliche Friedrichs-Wilhelms Universität	14
Berne, Swiss Entomological Society	2
Bombay, Natural History Society	5
Boston, Society of Natural History	2
Brocchi, Dr.	1
Brussels, Société Royal Malacologique	4
Calcutta, Asiatic Society of Bengal	21
" Board of Examiners	3
" Indian Association for the Cultivation of Science	1
" Indian Museum, Zoology and Archæology Section	12
" Royal Botanic Garden	1
" Sanskrit College	3
Cambridge (Eng.), University Museum	2
" (Mass.), Museum of Comparative Zoology at Harvard College	17
Cape of Good Hope, Albany Museum	1
Cape Town, South African Museum	1
Christchurch (N. Z.), Canterbury Museum	1
Cincinnati Museum Association	1
" Natural History Society	4
Colombo Museum	1
" Royal Asiatic Society, Ceylon Branch	4
Cotes, Mr. E. C.	13
Dehra Dun, Forest School	12
Douglas, Mr. J. W.	2
Dublin, Royal Irish Academy	5
Carried over	145

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	Brought forward	145
Dublin, Science and Art Museum		1
Dubois, Dr. E.		1
Dundee University College		2
Edinburgh, Museum of Science and Art		1
Finn, Mr. F.		2
Friedlander and Sohn, Messrs. R.		23
Fulton, Mr. H.		1
Geelong, Gordon College Museum		4
Geneva, Société Suisse de Numismatique		1
Genoa, Musei di Zoologia e Anatomia Comparata della R. Università		18
Godwin-Austen, Lt.-Col. H. H.		4
Government of Assam		3
" " Bengal, Printing Press		1
" " Secretariat		2
" " Bombay		9
" " Central Provinces		10
" " India, Comptroller of India Treasuries		1
" " Finance and Commerce		2
" " Foreign Department		5
" " Geological Survey		8
" " Home Department		30
" " Marine Survey		1
" " Meteorological Department		31
" " Printing Press		81
" " Revenue and Agricultural Department		8
" " Sanitary Commissioner		2
" " Survey Department		2
" " Madras		4
" " New South Wales		13
" " North-Western Provinces and Oudh		35
" " Perak		30
" " Punjab		3
" " United States of America		30
Grouvelle, Mons. A.		1
Haarlem, Koloniaal Museum		57
Halifax, Nova Scotian Institute of Science		1
Hamburg, Naturhistorisches Museum		2
Hampson, G. F.		1
	Carried over	448

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	Brought forward	448
Hansen, Dr. H. J.		2
Hérourard, E.		1
Hickson, Prof. S. J.		1
Jodhpur, Forest Department		1
Karachi, Collector of Customs		5
Kenyon, Mr. F. C.		1
King, Dr. G., F. R. S., C.I.E.		1
Kingston, Institute of Jamaica		1
Kjøbenhavn, Naturhistorisk Forening		1
Lahore Museum		11
Leipzig, Königlich-Sachs. Gesellschaft der Wissenschaften		5
London, British Museum		7
„ Imperial Institute		11
„ Royal Society		9
„ Zoological Society		6
Loriot, Prof. P. de		1
Lucknow, Provincial Museum		1
Madison, Wisconsin Academy of Sciences, Arts and Letters		1
Madras, Government Central Museum		8
Man, Mr. E. H., C.I.E.		2
Manchester, Owen's College Museum		2
Marenzeller, Dr. E. von		4
Marseille, Faculté des Sciences		10
Maskell, Mr. W. M.		2
Meerut, Civil Veterinary Department		1
Milne-Edwards, Prof. A.		1
Milwaukee, Public Museum of the City of		1
Monaco, S. A. S. le Prince Albert de		9
Nebraska, Agricultural Experiment Station		14
New York, American Museum of Natural History		2
Niceville, Mr. L. de		2
Ormerod, Miss E. A.		9
Ortmann, Dr. A.		1
Oxford, University Museum		1
Paris, Muséum d' Histoire Naturelle		7
Philadelphia, Academy of Natural Science		4
Portland (Me.) Society of Natural History		2
Quajjat, Dr. E.		15
Rodgers, C. J.		4
	Carried over	700

REPORT OF THE SUPERINTENDENT,

	Brought forward	700
St. Louis, Academy of Sciences		4
Salem, Essex Institute		1
Santiago, Museo Nacional de Chili		1
„ Société Scientifique du Chili		2
Sarawak Museum		1
Saussure, Prof. H. de		1
Schulze, Prof. F. E.		1
Slingerland, Mr. M. V.		4
Smith, Mr. Edgar A.		2
Stockholm, Kongliga Svenska Vetenskaps Akademien		2
Sydney, Australian Museum		3
„ Linnean Society of New South Wales		6
Turin, Musei de Zoologia et Anatomia Comparata della R. Università		36
Vienna, K. K. Natur Hof. Museum		4
Washington, Bureau of Ethnology		8
„ Smithsonian Institution		9
„ United States National Museum		4
Webster, Mr. F. M.		3
Weed, Mr. H. E.		1
Weltner, Dr. W.		1
Wulp, Mr. F. M. vander		2
	Donations	871
	Volumes purchased	602
	TOTAL	1,473

INDIAN MUSEUM.

APPENDIX D.

YEARLY RETURN OF VISITORS.

Number of Visitors from 1st April 1895 to 31st March 1896.

Month.	NATIVES.		EUROPEANS.		TOTAL.
	Male.	Female.	Male.	Female.	
April 1895 .	30,486	9,389	622	173	40,670
May* " .	12,355	3,592	257	61	16,265
June " .	28,939	8,343	407	107	37,796
July " .	30,833	8,102	435	150	39,520
August " .	30,775	9,234	492	150	40,701
September " .	40,347	14,554	712	268	55,881
October " .	32,182	10,624	630	160	43,596
November* " .	15,443	4,865	240	69	20,617
December " .	36,335	9,337	921	396	46,989
January 1896 .	31,882	11,568	1,417	480	45,347
February " .	27,462	9,082	756	237	37,537
March " .	36,490	10,171	581	193	47,435
GRAND TOTAL .	353,529	108,911	7,470	2,444	472,354

The number of visitors to the Museum during the 240 days on which the Institution was open to the general public was 471,700, or a daily average of 1,965 persons.

* Closed on account of annual repairs from 1st to 15th May and 1st to 15th November.



ANNUAL REPORT
OF
THE ECONOMIC AND ART SECTION
OF THE
INDIAN MUSEUM
FOR THE YEAR
1895-96.

No. $\frac{199}{X}$.

To
THE HONORARY SECRETARY TO THE TRUSTEES
OF THE INDIAN MUSEUM.

Dated the 16th September 1896.

SIR,

I have the honour to submit the Annual Report of the Economic and Art Section of the Indian Museum for the year ending 31st March 1896.

In doing so I desire to say that in accordance with the wishes of the Trustees conveyed by your No. 140—R.R., dated the 29th August 1895, I have endeavoured in this Report for

REPORT OF THE OFFICER IN CHARGE,

1895-96 to confine my remarks as far as possible to my work as Officer in charge of the Economic and Art Section of the Museum to the exclusion of matters relating to my position of Reporter on Economic Products to the Government of India, although, as mentioned in last year's Report, the operations of that department of my office are very nearly inseparable from the duties connected with the Museum.

I accordingly proceed at once to record the progress made and work done in the three Galleries into which this Section is divided, (a) Economic Gallery, (b) Art-ware Gallery, (c) Ethnological Gallery.

(a) *Economic Gallery*.—The experimental bay fitted up in this Gallery having met with the approval of His Honour the late Lieutenant-Governor of Bengal, that Government decided to give effect to the entire scheme of fittings for the Gallery designed by me. The work has accordingly been steadily pushed on with the aid of Chinese Carpenters supplied by the Public Works Department, and on the 31st March 1896 only a comparatively small number of bays remained to be completed.

I may state here that I have devoted considerable time and labour to working out, with the assistance of a draughtsman kindly lent by the Public Works Department, the designs for the new cases that will stand in the middle of the Gallery and will contain, as indicated in last year's Report, actual Trade samples of the chief staple commodities of Indian Commerce, such as Cotton, Jute, Silk, and Indigo. Other cases to stand in the middle of the Gallery have been designed to hold specimens of Rhea and other Fibres.

Mention may here be made of a simple and effective plan which has been adopted with all the show-cases put up in the Economic Court. This consists of a half bead projection on the

ECONOMIC AND ART SECTION.

ends and sides of cases which meets the door or lid on closing it. To receive this half bead projection a corresponding hollow or groove is cut in the door or lid as the case may be, the object of course being to render the cases dust-tight.

An improved method designed by me of locking up the cases has been successfully carried out by Messrs. T. E. Thomson & Co., Ltd. This consists of a circular latch working on a convex button from the outside of the case and which is locked and unlocked by means of a fork key fitting into 2 holes in the convex button and which single key opens all the locks in the gallery.

Large air-tight store boxes of sizes, the same as adopted by the Imperial Institute, are urgently needed for the convenient and safe storing of specimens. It is being arranged to have these produced to our order by a local firm.

As the Trustees are probably aware, arrangements have been perfected by which an ample supply of water is to be constantly supplied to this Section, as well as to other departments of the Museum generally. The object of this is threefold:—First in case of fire, to provide against which a number of hydrants have been fitted throughout the building, and close by a hose will be kept ready for fixing to a hydrant. This latter provision is made at convenient stations all over the building. The second purpose for which water is required is for the washing and cleaning of the specimens, cases, and floors of the Courts; and lastly for lavatory purposes.

In a side room adjoining each gallery is being fitted up a complete set of much-needed appliances for poisoning specimens consisting of a lead and an earthenware trough with water laid on, also a substantial work-table, etc. In the Economic Gallery,

REPORT OF THE OFFICER IN CHARGE,

the side room referred to containing troughs is being converted into a dark room for photographic work.

As soon as the Bengal Government had sanctioned the whole of the wall-fittings for the Economic Gallery, it became necessary to remove to the godowns and elsewhere the Economic Specimens. This was a task entailing much labour, and was satisfactorily performed by the Museum staff under my orders and those of Mr. Yates, the Officiating Assistant Curator. Directly the wall-fittings are completed, the work of arranging these specimens in their respective bays will be commenced.

The wall-fittings in the Economic Court consist of an upright case, a sloping desk case and a store locker or cabinet below for reserve stock. It is intended that the panels forming the doors of these cabinets shall be of characteristic Indian woods. After consultation with the Inspector General of Forests, arrangements have been made to secure seasoned planks for this purpose. In the meantime, and while these are being collected, the doors have been temporarily fitted with panels of Australian and other timbers which greatly relieve the monotony that would otherwise result were the panelling of all the doors constructed of one and the same kind of wood.

It is a matter of some regret that owing to the unavoidable length of time that is being taken to accomplish the fitting up of this Court, little or no progress can be reported in the final arrangement of the Economic Specimens. It is hoped, however, that the time is not far distant when a serious beginning will be possible in this direction.

In the year under report the collection of specimens has steadily progressed, and the work of attending to these has been more than sufficient to tax the energies and resources of the receiving and despatching staff in the Museum. Some idea of

ECONOMIC AND ART SECTION.

the collections received may be obtained from the following abstract:—

Gums and resins	.	.	.	.	.	.	16
Dyes and tans	.	.	.	.	.	.	195
Oil, oil-seeds and oil-cake	.	.	.	.	.	.	130
Fibres	.	.	.	.	.	.	110
Silk	.	.	.	.	.	.	3
Braiding materials	.	.	.	.	.	.	21
Medicines	.	.	.	.	.	.	210
Food	.	.	.	.	.	.	45
Opium	.	.	.	.	.	.	118
Soil	.	.	.	.	.	.	6
Insects	.	.	.	.	.	.	8
Bees	}	.	.	.	.	.	111
Honey							
Honey-comb							
Wax							
India Rubber	.	.	.	.	.	.	5
Timber	.	.	.	.	.	.	49
Coal	.	.	.	.	.	.	30
Domestic	.	.	.	.	.	.	17
Seed pearls	.	.	.	.	.	.	1
Australian timbers	.	.	.	.	.	.	145
TOTAL							1,220

At the close of the Calcutta International Exhibition a number of specimens of Australian timbers were made over to the Museum and housed in the godowns. During the year the Trustees inspected these and thereupon decided that the specimens should be added to the general collections. They have accordingly been classified as far as possible and have been registered.

REPORT OF THE OFFICER IN CHARGE,

(b) *The Art-ware Gallery.*—The principal feature which marks the progress in this gallery during the year 1895-96 is the re-arrangement of the exhibits in accordance with the plan described briefly in my letter to the Trustees, No. 928—XIX, dated the 17th March 1894. The work was commenced on the 1st November 1895, advantage being taken of the usual half-yearly closing of the Museum which lasted from the 1st to the 15th November.

Although strenuous efforts were made on the part of everyone concerned to complete the work within that period, little more was done than to form the groundwork of future operations. This consisted in replacing some of the cases to the best advantage, the object in view being to establish a scientific basis of classification, and also to produce a less rigid effect in the display of objects in the Gallery. It is believed that the result amply justifies expectations and that the appearance of the Gallery may with reason be said to have been thereby transformed. At least such is the opinion of those who have visited it and who had seen the previous arrangement of the cases. One great advantage arising from the new plan adopted is that the various objects can now be studied from different points of view.

The following collections were arranged in the middle of the Gallery during the period of annual cleaning:—

Metal goods including gold and silver jewellery.

Manufactures of	{	Wood.
		Ivory.
		Pottery.
		Stone.

It may be here explained that the middle space of the Gallery has been allotted to the following classes of Exhibits:—

ECONOMIC AND ART SECTION.

Entering the Museum by the public door, (*a*) Metal goods ; (*b*) Wood work ; (*c*) Pottery ; and (*d*) Stone manufactures.

In the Eastern half of the Gallery, one side of the long middle show-case has been given to Embroidered Fabrics.

The wall-cases within the bays are devoted to Textiles. These are grouped, first according to the fibre used, and secondly according to the art designs and method of manufacture.

Two out of the four large and curious pieces of wood carving of some antiquity which had remained on the ground floor of the building were brought up into the gallery and placed in the wood work section. Owing to the decayed and worm-eaten condition of the other two, it was not considered advisable to place them in the Gallery lest injury might be communicated to other specimens.

Attention may be drawn to the substitution in all the show-cases of dark blue lining for the bright red cloth previously used and which was obviously unsuited to the purpose.

The following plan showing the re-arrangement of the gallery may be useful :—

REPORT OF THE OFFICER IN CHARGE,

[illegible]

ECONOMIC AND ART SECTION.

From the 15th November 1895 to 31st March 1896 the following specimens were overhauled, classified and arranged in their respective places :—

- (1) Embroideries.
- (2) Kincobs.
- (3) Coloured Silk.
- (4) Plain Silk.
- (5) Mixed Fabrics.
- (6) Woollen Goods.
- (7) Carpets.
- (8) Durries.
- (9) Cotton Piece Goods.
- (10) Muslins.
- (11) Coarse Printed Fabrics.
- (12) Stamped and Printed Fabrics.
- (13) Palampores and Wax Printed Fabrics.
- (14) Finer Fabrics Stamped and Printed.
- (15) Woven Fabrics.

I would here direct attention to the change that has been effected in manner of displaying the Embroideries and Textiles in the Gallery. These are now draped more or less artistically and it is believed that a truer conception of design and colour is thereby conveyed than when the specimens were folded up square. It would seem too that by the new method of exposing these exhibits they are less likely to harbour insects.

Whatever views may be held as to the merits or otherwise of the new plan of re-arrangement, it must be allowed that the thorough overhauling which the work has entailed will prove of immense benefit to the specimens themselves.

The state of the collections may be described as fair. During the process of re-arranging the exhibits a greater amount of depreciation was found to exist than there should have been.

REPORT OF THE OFFICER IN CHARGE,

Efforts are now being made to reduce such depreciation to the smallest extent possible by a more liberal use of insecticides and by periodically examining the specimens.

It will be borne in mind, however, that a certain percentage of damage to Museum goods, especially Textiles, is unavoidable in a climate such as that of Bengal.

Besides arranging the show-cases in the Art-ware Gallery on a new plan as described above, it has been found possible to increase the show-case accommodation very considerably without, as far as appearances go, taking up more space than was occupied by the cases under the old plan. Nine ebonised cases with glass doors some 20 feet high and 4 feet wide have been brought in from another part of the Section where they were not being used, and have been placed in the Eastern half of the Gallery in the main passage on either side, one between each bay. On seeing these in their present position it would scarcely be suspected that the cases were not originally intended for this Gallery so appropriate are they for the positions assigned to them. These cases have been utilized for Textiles. Other two long jewel cases fitted with Chubb's locks and a master key, that remained unused for some time in the Office of the Economic and Art Section, have been placed in the middle of the Western half of the Gallery. These most useful cases have been devoted to Silver Jewellery.

At the Eastern end of the Gallery four new bracket wall-cases and 2 bracket shelves, the whole costing Rs400, are being constructed with the sanction of the Trustees, and are almost completed. These bracket wall-cases are intended for specimens of stone carving, etc.

Registration.—The following articles were registered and entered in the rough catalogue during the year:—Koftgari work, Niello work, Bidri and other encrusted and inlaid ware, Metal-ware (chiefly those of Bengal).

ECONOMIC AND ART SECTION.

Labelling.—New labels have been attached to the gold, silver, and enamelled ornaments, on articles of personal adornment, chiefly imitation jewellery and ornaments made of brass.

Additions.—Small marble figure from Jaipur, eighty-six gold and silver ornaments presented to the Section through the Asiatic Society of Bengal by the Deputy Commissioner of Jhang, and a pair of bangles, lackered ware, from Ellichpur, Berar, presented by Dr. George Watt, C.I.E. Six Specimens of Glass Toys and one string of Silver Beads were purchased through the Deputy Commissioner of Karnal, Panjab.

General.—By order of the Trustees the foreign exhibits which were presented to the Museum by exhibitors at the Calcutta International Exhibition after its close were sold at auction by Messrs. Mackenzie, Lyall & Co., there being no room for the display of these articles.

His Honour the Lieutenant-Governor of Bengal, accompanied by Lady Mackenzie, was pleased to inspect this Gallery on the 28th February 1896, and expressed his satisfaction at the progress which had then been made. The Honourable Mr. Woodburn, C.S.I., Member of the Viceroy's Council, accompanied by Denzil Ibbetson, Esq., I.C.S., Secretary to the Government of India in the Revenue and Agricultural Department, also visited the Section on the 14th February 1896, and was much interested in all that he saw.

(c) *Ethnological Gallery.*—During the year under report the work of re-arrangement and classification on the system adopted for the Art-ware Court was taken in hand.

I regret that the large fixed glass case in the middle of the Gallery has prevented a re-adjustment to allow of the same light and freedom as in the Art-ware Gallery.

By order of the Trustees 85 life-size clay figures illustrating the principal races of India have been brought up from the ground

REPORT OF THE OFFICER IN CHARGE,

floor and arranged in the West-Central Glass case, where they now form one of the most interesting features in the Gallery.

A large number of exhibits from the Straits and other countries which had been stored on the ground floor of the building were inspected by the Trustees who decided that these specimens should be given a place in the Museum. They have accordingly been overhauled, and included in the general collection.

Registration.—Twelve hundred specimens were classified and entered in the new Register.

Labelling.—About 500 old and worn-out labels have been removed from specimens and replaced by new ones.

Additions.—During the year seventy-five new exhibits were received, registered and placed in the Gallery. These consisted of :—

- 1 Agricultural Implement collected in Assam by the Reporter on Economic Products.
- 6 Santal Clay models purchased for Rs 29.
- 1 Old *mag* (flint-match-lock) gun presented by BABU CHANDRA KUMAR DASS of Lousing, District Faridpur.
- 1 Old Cannon Ball from Sankaridrug hill, Salem, presented by Mr. MIDDLEMISS through the Geological Survey of India.
- 1 Stringed musical Instrument "Surtaronga," presented by BABU JADAB KRISHNA BOSE, Bhowanipur.
- 67 Specimens of churns and churning. Collection presented by Government of India, Revenue and Agricultural Department, through the Reporter on Economic Products. The collection includes churns from the following places and localities :—

* Acknowledged in Report of 1894-95, pp. 55, 56. Registered during 1895-96.

ECONOMIC AND ART SECTION.

Mysore.	Hissar.
Coorg.	Raipur.
Darjeeling,	Nagpur.
Nepaul.	Jabalpur.
Mymensing.	Goonah.
Santal Parganas.	Central India, Dewas State,
Central India, Dewas State.	Junior Branch.
Ferozepur.	Western Malwa.
Peshawar.	Baghelkhand.
Rohtak.	Aligarh.
	Bombay.

The following articles were arranged during the year in accordance with the new system:—

Basket-ware.	Sandals.
Mortars.	Boots and shoes.
Sieves.	Walking-sticks.
Rice-pounders.	Umbrellas.
Weights and measures.	Sun-shades.
Money.	Turbans.
Brushes and brooms.	Hat and caps.
Smoking pipes and hookas.	Punkhas.
Primitive costumes.	Combs.
Bark cloths.	Musical instruments.
Leaf aprons.	Bows and arrows.
Dhuties.	Spears, swords and shields.
Languties.	Battle-axes.
Coats.	Cannons and Guns.
Chudders.	Fishing traps, lines and nets.

Library.—Two hundred and thirty-two books and publications were received in the Library of the Economic and Art Section during the year under report. These have all been duly registered and catalogued.

Staff.—The year under notice has been marked by the retirement on medical certificate of Mr. T. N. Mukharji after a long career of usefulness in his department.

REPORT OF THE OFFICER IN CHARGE,

Mr. R. A. D'Cruz, clerk in charge of the Economic Court, availed himself of privilege leave for three months from 28th January 1896, while it was found desirable to transfer Baboo Hari Das Mukharji from the Art-ware Court to the office. With permission of the Trustees, Baboo Phani Bhusan Dutt was placed in temporary charge of both the Art-ware and Ethnology Courts, and, it must be added, has shown considerable intelligence in carrying out orders entrusted to him. During the absence of Mr. R. A. D'Cruz the engagement of a temporary clerk has been sanctioned by the Trustees to assist in the collections Branch. Similar assistance has also been provided for Baboo P. B. Dutt, pending the appointment of a clerk in permanent charge of the Ethnology Court. Such assistance has been the more necessary since the system of re-arrangement had to be completed. During the absence on privilege leave of Mr. T. N. Mukharji, from 3rd January to the 3rd March, Mr. W. R. Yates, Superintendent of Ledgers in the office of Reporter on Economic Products, on the recommendation of the Trustees, was appointed to act as Officiating Assistant Curator in addition to his own duties, and when owing to the state of his health Mr. Mukharji was compelled to retire from the service on the 11th March 1896, Mr. Yates was again appointed.

I have the honour to be,

SIR,

Your most obedient Servant,

D. HOOPER,

*Officer in charge, Economic and
Art Section, Indian Museum.*

ECONOMIC AND ART SECTION.

APPENDIX A.

Summary of registered additions for the year 1895-96.

ARTWARE—		
Marble figure	1	
Gold and Silver ornaments (donation)	86	
Pair of bangles, lackered ware (donation)	1	
Leather Koopees (purchased)	7	
String of 102 Silver beads (purchased)	1	
Glass Toys (purchased)	6	
Total .		102
ECONOMIC PRODUCTS—		
FROM IMPERIAL INSTITUTE COLLECTIONS—		
Gums and Resins	21	
Dyes, Tans and Mordants	195	
Oils, Oil-seeds and Oil-cake	130	
Fibres	131	
Silk	3	
Medicines	334	
Foods	53	
Bees, Wax and Honey	111	
Coal	30	
Timber	49	
Domestic	17	
Seed pearls	1	
Total .		1,075
ETHNOLOGY—		
* { Clay models (purchased)	6	
* { Musical instrument (donation)	1	
* { Match-lock gun (donation)	1	
* { Cannon ball (donation)	1	
* { Agricultural implements (donation)	68	
Total .		77
Grand Total .		1,254

* *vide* foot-note on page 12.

REPORT OF THE OFFICER IN CHARGE,

APPENDIX B.

List of Donors to the Economic and Art Section during the year 1895-96.

Name of Donor.	Nature of Article contributed.
Government of India, Revenue and Agricultural Department.	Egyptian Cotton.
Director of Land Records and Agriculture, Bengal.	Index, Medicine, Oil, Seeds and Oil-cake, Braid, Fibre, Dyes.
Ditto, North-West Provinces	Seeds, Oil and Oil-cake, Dye.
Ditto, Bombay	Silk, Oil-seeds, and Oil-cakes, Dyes.
Ditto, Panjab	Opium.
Ditto, Central Provinces	Dyes.
Ditto, Madras	Medicine, Seeds, Fats and Oil-cakes.
Ditto, Assam	Dyes.
Ditto, Burma	Dyeing and Printing materials, Domestic.
Revenue Secretary to Chief Commissioner, Burma.	Seed pearls.
Reporter on Economic Products to the Government of India.	Coal, Fibre, Silk, Medicine, Rubber.
Inspector General of Forests and Conservators of Forests in the different Provinces through the undernoted Forest Officers:—	
Conservator of Forests, Bengal . . .	Seeds, Fibre, Index and Mica.
Deputy Conservator of Forests, Bengal, Darjeeling Division.	Medicine.
Ditto ditto, Sunderbans	Fibre, Dyes and Braid.
Ditto ditto, Kurseong Division	Medicine.
Officiating Deputy Conservator of Forests, Palamau Division.	Cutch.
Divisional Forest Officer, Chittagong	Index Products.
Extra Assistant Conservator of Forests, Puri Division.	Dye.
Ditto, Chittagong Division . . .	Timbers.

ECONOMIC AND ART SECTION.

*List of Donors to the Economic and Art Section during the year
1895-96—continued.*

Name of Donor.	Nature of Article contributed.
Extra Assistant Conservator of Forests, Kurseong Division. Forester, Narkaldanga Station, Bengal.	Index Collection (<i>i.e.</i>) Gilla seeds. Timber.
Conservator of Forests, School Circle, North-Western Provinces.	Bees, Wax and Honey, Gum, Resin and Turpentine.
Deputy Conservator of Forests, Bundelkhand Division, North-Western Provinces.	Seeds, Oil and Oil-cake.
Ditto ditto, Bahraich Division, North-Western Provinces.	Timbers.
Officiating Conservator of Forests, Panjab.	Medicine.
Deputy Conservator of Forests, Bashahr Division.	Resin.
Ditto ditto, Simla Division .	Honey, Bees and Wax.
Ditto ditto, Kangra Division .	Medicine and Honey.
Ditto ditto, Hazara Division .	Honey, Dye and Medicine.
Conservator of Forests, Central Circle, Bombay.	Timber.
Ditto, South Canara, Bombay .	Timber.
Divisional Forest Officer, South Division, Canara, Bombay.	Timber.
Divisional Forest Officer, Belgaum, Bombay.	Oil and Timber.
Divisional Forest Officer, Satara, Bombay.	Bees, Wax and Honey.
Divisional Forest Officer, East Khandesh, Bombay.	Dye.
Range Forest Officer, Kalyon, Bombay.	Timber.
Conservator of Forests, Central Circle, Central Provinces.	Bees, Wax and Honey.
Conservator of Forests, Southern Circle, Central Provinces.	Seeds, Oil and Oil-cake.

REPORT OF THE OFFICER IN CHARGE,

List of Donors to the Economic and Art Section during the year 1895-96—continued.

Name of Donor.	Nature of Article contributed.
Deputy Conservator of Forests, Saugor, Central Provinces.	Wax.
Extra Assistant Superintendent, Forest Surveying Camp, Raipur, Central Provinces.	Index Collection and Gum.
Conservator of Forests, Central Circle, Madras.	Honey and Timber.
Conservator of Forests, Northern Circle, Madras.	Dyes and Tans, Timber.
District Forest Officer, Ganjam, Madras.	Medicine.
District Forest Officer, South Malabar, Madras.	Timber, Honey.
Forest Range Officer, Saidapet, Madras.	Medicine.
Forest Range Officer, Palghat Range, Madras.	Timber.
Conservator of Forests, Bangalore, Berar.	Dyes.
Deputy Conservator of Forests, Ellichpur, Berar.	Dyes and Honey.
Conservator of Forests, Hyderabad Assigned Districts, Hyderabad.	Dyes and Tans.
Deputy Conservator of Forests, Wun District.	Honey.
District Forest Officer, Kadur, Mysore.	Dyes.
Conservator of Forests, Assam.	Honey.
Deputy Conservator of Forests, Darrang, Assam.	Rubber.
Extra Assistant Conservator of Forests, Sylhet.	Honey.
Conservator of Forests, Eastern Circle, Upper Burma.	Medicine, Timber and Cones.

ECONOMIC AND ART SECTION.

*List of Donors to the Economic and Art Section during the year
1895-96—continued.*

Name of Donor.	Nature of Article contributed.
Conservator of Forests, Western Circle, Upper Burma.	Medicine.
Deputy Conservator of Forests, Pyinmana.	Timber.
Deputy Conservator of Forests, Mandalay Division.	Timber.
Deputy Conservator of Forests, Pegu Circle.	Medicine, Dyes and Timber.
Deputy Conservator of Forests, Prome	Medicine and Timber.
Deputy Conservator of Forests, Lower Chindwin Division.	Timber.
Deputy Conservator of Forests, Salween, Ataran Division.	Gum and Resin.
Assistant Conservator of Forests, Upper Chindwin Division.	Timber.
Kalair, Southern Shan States, Burma	Crude Resin
Board of Revenue, Lower Provinces, Bengal, Aligunge, Behar Agency.	Opium.
Board of Revenue, Lower Provinces, Dumraon, Farm, Shahabad.	Ditto
Board of Revenue, Lower Provinces, Bankipur.	Ditto.
Sub-Deputy Opium Agent, Fatehgarh.	Ditto.
Sub-Deputy Opium Agent, Sitapur.	Ditto.
Sub-Deputy Opium Agent in Malwa.	Ditto.
Assistant Opium Agent in Bhopal.	Ditto.
Superintendent, Sajjan Niwas Garden, Udaipur.	Ditto.
His Highness the Maharaja of Rutlam.	Ditto.
First Assistant Agent to Governor-General, Kotah, Central India.	Ditto.
Director, Botanical Department, Northern India, Saharanpur.	Medicine and Dyes.

REPORT OF THE OFFICER IN CHARGE,

*List of Donors to the Economic and Art Section during the year
1895-96—continued.*

Name of Donor.	Nature of Article contributed.
Director of Agriculture, Madras .	Food.
Revenue and Agricultural Department, Bengal.	Braid.
Collector of Mozaffarpur . . .	Printing and Dyeing materials.
Ditto of Berhampur . . .	Ditto ditto.
Ditto of Dinajpur . . .	Fibre.
Ditto of Customs, Calcutta .	Medicine.
Superintendent, Royal Botanical Garden, Sibpur.	Fibre and Medicine.
Government Experimental Farm, Sibpur.	Fibre.
Government Experimental Farm, Burdwan.	Ditto.
Medical Store-keeper to Government, Bengal Command.	Medicine.
Medical Store-keeper, Western Circle, North-Western Provinces.	Medicine and Dyes.
Curator and Secretary, Provincial Museum, Lucknow.	Dyeing and Printing materials.
Government Experimental Farm, Cawnpore.	Seeds, Oil and Oil-cakes, Medicine.
Officiating Deputy Commissioner, Almora, North-Western Provinces.	Bees, Wax and Honey.
Superintendent, Government Botanical Garden, North-Western Provinces.	Food, Dyes and Barley.
Deputy Commissioner, Bilaspur, Central Provinces.	Silk.
Deputy Commissioner, Hazara District, Panjab.	Bees, Wax and Honey.
Deputy Commissioner, Gurdaspur District, Panjab.	Ditto.
Deputy Commissioner, Hoshiarpur District, Panjab.	Dyes, Oil and Seeds.
Deputy Commissioner, Amballa District, Panjab.	Oil, Seeds and Oil-cakes.

ECONOMIC AND ART SECTION.

*List of Donors to the Economic and Art Section during the year
1895-96—continued.*

Name of Donor	Nature of Article contributed.
Deputy Commissioner, Rawalpindi District, Panjab.	Honey and Wax.
Deputy Commissioner, Gharwal District, Panjab.	Food and Medicine.
Deputy Commissioner, Amritsar District, Panjab.	Dyes.
Deputy Commissioner, Lahore District, Panjab.	Seeds, Oil and Oil-cakes and Food.
Deputy Commissioner, Kangra District, Panjab.	Medicine and Dyes.
Deputy Commissioner, Multan District, Panjab.	Dyes.
Deputy Commissioner, Kohat District, Panjab.	Seeds, Oil and Oil-cakes.
Principal, School of Art, Lahore	Dyeing and Printing materials.
Collector, Malabar District, Madras	Oil, Kernel and Oil-cake.
Ditto, Bellary District, Madras	Seeds, Oil and Oil-cakes.
Ditto, Chingleput District, Madras.	Medicine.
Collector of Coimbatore, Madras	Seeds, Oil and Oil-cakes.
Ditto of Godavary, Madras	Timber.
Ditto of Tinnevely, Madras	Seeds.
Ditto of Madura, Madras	Wax.
Deputy Collector, Tanjore, Madras	Nuts and Oil.
Tashildar, of Tanjore, Madras	Seeds, Oil and Oil-cakes.
Tashildar, Cuddalore Taluq	Dye.
Deputy Tashildar, Tirimadani Taluq	Medicine.
Ditto, Pamben Taluq	Ditto.
Superintendent, Central Museum, Madras.	Medicine.
Political Agent, Manipur, Assam	Index and Dyes.
Deputy Commissioner, Naga Hills, Assam.	Dyes.
Deputy Commissioner, Sylhet, Assam.	Dyes, Seeds, Oil-cake, Domestics and Fibre.

REPORT OF THE OFFICER IN CHARGE,

*List of Donors to the Economic and Art Section during the year
1885-90—continued.*

Name of Donor.	Nature of Article contributed.
Deputy Commissioner, Kamrup, Assam.	Dyes.
Deputy Commissioner, Nowgong, Assam.	Lac and Fibre.
Deputy Commissioner, Lakhimpur, Assam.	Fibre.
Assistant Commissioner, Sibsagar, Assam.	Oil, Seeds and Oil-cakes, Index Collection.
Sub-Divisional Officer, Jowai and Khasia Hills, Assam.	Fibres and Dyes.
Assistant Commissioner, Jorhat, Assam.	Dyes and Fibres.
Revenue Secretary to Chief Commissioner, Burma.	Fibre and Pearls.
Superintendent, Land Records and Agriculture, Sind.	Seeds.
Assistant Agent to Governor General for Central India.	Food Grains.
Honorary Secretary, Agricultural and Horticultural Gardens, Madras.	Medicine.
Colonel Anderson, Srinagar, Kashmir.	Seeds.
Captain R. Southey, Beluchistan.	Medicine.
Mrs. A. Montgomery, Rambagh, Kangra.	Fibre.
Revd. J. W. Charlton, Chapra, Nadia	Fibre.
Baboo J. N. Mitra, Pioneer Agricultural Farm, Ajhapur, Burdwan.	Cotton and Fibre.
J. Bharwada, Esq., Gondal, Kathiawar.	Medicine.
Revd. A. Campbell, Pakhuria . . .	Index Collection, Dyes, Medicine and Fibres.
Raja of Bolihar	Fibre.
Revd. A. W. Heyde, Kyelang, Lahoul, Kangra.	Barley, Wheat and Medicine.

ECONOMIC AND ART SECTION.

*List of Donors to the Economic and Art Section during the year
1895-96—concluded.*

Name of Donor.	Nature of Article contributed.
W. P. Griffiths, Esq., Panitola, Jokai Assam Tea Co., Ltd.	Fibre.
Assistant Superintendent, Harness and Saddle Factory, Cawnpur.	Dyes and Tans.
Nowgong Tea Seed Garden, Jeypur, Assam.	Tea Seed.
Messrs. J. H. Floyd and L. A. Boilard, Barrackpur.	Mica.
W. Penny, Esq., Bishnath, Assam	Dye.
A. Langlois, Esq., 3, Pollock Street, Calcutta.	Braid.
Messrs. Begg, Dunlop & Co., Calcutta.	Fibre.
D. R. Kotwal, Esq., Calcutta . . .	A piece of cane from Chitta- gong, some 95 feet in length.
Superintendent, Bengal Coal Co., Ltd.	Coal.
Assam Railway Trading Co., Ltd.	Ditto.
Colliery Superintendent, East Indian Railway, Engineering Department.	Ditto.
Manager, Giridih Colliery Co. . .	Ditto.
Mining Manager, Dandote Colliery .	Ditto.
Manager, Umaria Colliery . . .	Ditto.
Mining Manager, Colliery District, North Western Railway.	Ditto.
Managing Agent, Borra Coal Co., Ltd.	Ditto.
New Burrakhar Coal Co., Ltd. . . .	Ditto.
Bengal-Nagpur Coal Co., Ltd. . . .	Ditto.
The Deputy Commissioner of Jhang through the Honorary Philological Secretary, Asiatic Society of Bengal.	86 Gold and Silver Ornaments.
Dr. George Watt, C.I.E.	Pair of bangles, lackered ware.
Deputy Commissioner, Karnal, Pan- jab (purchased).	102 Silver Beads.
Ditto ditto	6 Glass Toys.
Baboo Sant Ram, Lahore (purchased)	7 Leather Koopies.

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